



A service of the National Library of Medicine  
and the National Institutes of Health

My NCBI  
[Sign In] [Register]

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for [ ] Go Clear

Limits Preview/Index History Clipboard Details

Display AbstractPlus Show 20 Sort by Send to

All: 1 Review: 0

☐ 1: Oncogene. 1991 Sep;6(9):1641-50.

Links

**Murine Flt3, a gene encoding a novel tyrosine kinase receptor of the PDGFR/CSF1R family.**

**Rosnet O, Marchetto S, deLapeyriere O, Birnbaum D.**

U. 119 INSERM, Marseille, France.

Receptor-type tyrosine kinases presenting an extracellular region with five immunoglobulin-like domains, and strongly related by sequence similarities in the intracellular region, constitute a family of receptors involved in development and function of various cell lineages. We have isolated and characterized the mouse Flt3 gene, encoding the sixth member of this family. The Flt3 gene possesses an open reading frame of 3000 nucleotides, and therefore appears to code for a protein of 1000 amino acids. The deduced structure of the FLT3 protein presents all the characteristics of a receptor-type kinase of this family. The gene is expressed in placenta, in various adult tissues including gonads and brain, and in hematopoietic cells. The Flt3 transcript is 3.7 kb long, except in the testis, where two shorter post-meiotic transcripts are detected. These results suggest a role for this novel receptor and its yet unidentified ligand in placenta, gonads and hematopoietic and nervous systems.

PMID: 1656368 [PubMed - indexed for MEDLINE]

Display AbstractPlus Show 20 Sort by Send to

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

Department of Health & Human Services

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

#### Related Links

Nucleotide sequence and expression of a novel human receptor-type tyrosine kinase gene (flt) closely related to the fms family. [Oncogene](#). 1990]

Isolation and characterization of new mammalian kinase genes by cross hybridization with a tyrosine kinase probe. [Princess Takamatsu Symp. 1989]

The FLT4 gene encodes a transmembrane tyrosine kinase related to the vascular endothelial growth factor receptor. [Oncogene](#). 1993]

Human proto-oncogene c-kit: a new cell surface receptor tyrosine kinase for an unidentified ligand. [EMBO J](#). 1987]

Chromosomal localization of FLT4, a novel receptor-type tyrosine kinase gene. [Genomics. 1992]

[See all Related Articles...](#)

Jan 16 2007 05:58:20